

19. The testing device of claim 17, wherein Squid sensor comprises a Squid gradiometer.
20. The testing device of claim 16, wherein the measuring sensors comprise a Squid sensor.
21. The testing device of claim 20, wherein the Squid sensor is a Squid magnetometer.
22. The testing device of claim 20, wherein Squid sensor comprises a Squid gradiometer.
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24. The method of claim 23, wherein the sample is rotated.
25. The method of claim 23, wherein from the polarity of the measuring signal and the direction of the temperature gradient one may infer the type of homogeneity.
26. The method of claim 24, wherein from the polarity of the measuring signal and the direction of the temperature gradient one may infer the type of homogeneity.
27. The method of claim 23, wherein for the improved localization and shape determination of the inhomogeneity the temperature profile in the sample is differently set in subsequent measurements.
28. The method of claim 24, wherein for the improved localization and shape determination of the inhomogeneity the temperature profile in the sample is differently set in subsequent measurements.
29. The method of claim 25, wherein for the improved localization and shape determination of the inhomogeneity the temperature profile in the sample is differently set in subsequent measurements.